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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/083,403	02/27/2002	Keiichi Nakada	381AS/50981	7379	
7590 05/03/2005			EXAMINER		
Crowell & Mo	•	PATEL, HARSHAD R			
The Evenson, N Intellectual Prop	IcKeown, Edwards & Lei berty Law Gr.	ART UNIT	PAPER NUMBER		
1001 Pennsylva	nia Avenue, N.W.	2855			
Washington, DC 20004-2595			DATE MAILED: 05/03/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/083,403	NAKADA ET AL.	m			
Office Action Summary		Examiner	Art Unit				
		Harshad Patel	2855				
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet w	ith the correspondence addre	ss			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR I MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicar period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CION. CFR 1.136(a). In no event, however, may a rition. s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON y statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this commissions BANDONED (35 U.S.C. § 133).	unication.			
Status							
1)🛛	Responsive to communication(s) filed or	a <u>20 April 2005</u> .					
2a)⊠	This action is FINAL. 2b)	This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-10 is/are pending in the application of the above claim(s) is/are welliam(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	ithdrawn from consideration.	•				
Applicat	ion Papers						
9)[The specification is objected to by the Ex	aminer.					
10)[10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection						
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to by	•	' '	• •			
Priority (ınder 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for f All b) Some * c) None of: 1. Certified copies of the priority doce 2. Certified copies of the priority doce 3. Copies of the certified copies of the application from the International I	uments have been received. uments have been received in A re priority documents have been Bureau (PCT Rule 17.2(a)).	Application No received in this National Sta	ge			
2) Notice 3) Infor Pape	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO er No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-15 	2)			

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Hecht et al. (6,332,356) (hereinafter Hecht).

Hecht teaches a flow measuring device (1) comprising a sub-passage (10) installed in a main passage (2) through which a fluid flows; a detection element (21) installed in the sub-passage and capable of measuring a flow rate of a gas flowing in a forward direction and a flow rate of a gas flowing in a backward direction, the detection element provided with a sub-passage upstream temperature measuring resistor and a sub-passage downstream temperature measuring resistor (Col. 4, lines 61-63), the sub-passage having an outlet opening (30) in a radial direction of the main passage and a bent portion (Fig. 1) at least upstream of the detection element; and introducing means, not numbered but the extension on the upstream side of the outlet that is labeled by outlet 30, provided near the outlet of the sub-passage to introduce the backward flow of the main passage into the sub-passage through the outlet by a dynamic pressure (Col. 6, lines 3-8). The sub-passage also has a bent portion between the outlet and the detection element.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

4. Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hecht.

Hecht shows all the features of the instant invention except for the structure of the sub-passage

constructed of two members and two outlets and the introducing means formed on one of the two

members or the structure of the sub-passage including the lengths. It would have been obvious to

a person having ordinary skill in the art at the time the invention was made to form a path of flow

that would be of equal distance from the detecting element since such an arrangement would

provide accurate measurements without any errors. Furthermore, providing a sub-passage formed

of two members would equally function as the sub-passage formed of a single element since the

flow would pass through both the elements simultaneously. Furthermore providing two outlets

compared to a single one would prevent blockage at the outlet area.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Nakada et al. (6,851,311) teach an introducing means (fig. 8C) and outlets on both

sides (fig. 9D).

Kohno et al. (6,694,811) teach an introducing means (fig. 1).

Kobayashi et al. (5,892,146) teach introducing means (fig. 1).

Igarashi et al. (5,789,673) teach introducing means 308 for stabilizing the flow.

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Response to Arguments

Applicant's arguments filed 4/20/05 have been fully considered but they are not persuasive. The arguments regarding provided at a peripheral portion of the sub-passage outlet, positively introduces main passage backward flow near the outlet of the sub-passage into the sub-passage through that outlet and as a result, to stably introduce the backward flow even if drift of the backward flow is generated. The arguments are not persuasive since the applicant has not claimed the argued language of the stable flow. However, Hecht would inherently have a stable flow introduced in case a reverse flow occurs as the contour of the introducing means is such a way that a stable flow would be formed entering the outlet.

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harshad Patel whose telephone number is (571) 272-2187. The examiner can normally be reached on Monday-Thursday (7:00 AM-5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harshad Patel Primary Examiner Art Unit 2855

HP 4/28/05